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## DEPARTMENT OF STATE

Washington, D.C. 20520

BUREAU OF INTERNATIONAL SCIENTIFIC AND TECHNOLOGICAL AFFAIRS U.S.-U.S.S.R. Programs Secretariat

CONFIDENTIAL

August 28, 1974

25X1A

MEMORANDUM FOR:

Deputy Chairman

Interagency Advisory Group on Exchanges

SUBJECT:

U.S.-U.S.S.R. Agreement on Scientific

and Technical Cooperation - Water

Resources Cooperative Area

The U.S.-U.S.S.R. Joint Project Group on Plastics in Hydrotechnical Construction held its first meeting in July 1974. Under paragraph II.2 of the record of the meeting both sides agreed to seek approval by the Joint Commission at its next meeting for the inclusion within the project area of two additional topics for cooperation: waterproofing of joints and polymer concrete. These topics were among those recommended in the initial meeting of the Joint Working Group in September 1972.

In comments dated December 5, 1972 and January 22, 1973 the IIAGE indicated that the U.S. could benefit in several areas provided there was complete and free exchange of information, and specifically commented on the topic, polymer concrete. Should you have any additional comments on either of the topics proposed for inclusion in the U.S.-U.S.S.R. joint project on plastics in hydrotechnical construction, I would appreciate receiving them no later than September 16.

Royal J. Wald

Acting Executive Secretary

Attachment:

Project Record, 7/74

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State Dept. declassification & release instructions on file

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discussed forms and topics of cooperation and are considering the detailed proposals by the USSR group as a base for a Joint Program of work, specified according to priority, to be carried out for the period 1974-76. (Appendix No. 2)

This program may be supplemented by additional topics, and detailed priorities may be selected after the visit of the US group to the USSR.

- 2. Some of the categories of work listed in Appendix No. 2 were included in the Results of Discussions of the first meeting of the US-USSR Joint Working Group on Scientific and Technical Cooperation in the Field of Water Resources as Projects II-4 'Waterproofing of Joints," and II-5 "Polymer Concrete." Both groups find it advisable to cooperate in these endeavors as appropriate work under application of Plastics in Hydrotechnical Construction and hereby request the approval of the US-USSR Joint Commission on Science and Technology to include them in the present project. These items are categories of Work No. 2, 3, and 4 in Appendix No. 2.
- 3. The groups agreed that during the next meeting in the USSR a program for cooperative work for the period up to 1980 would be drafted, discussed and coordinated.
- 4. The itinerary for the visit of the US group to the USSR in September 1974 was discussed and agreed upon (Appendix No. 3). This will be finalized and confirmed by the USSR group and forwarded to the US group 30 days prior to its departure for the USSR.
- 5. The USSR group became acquainted with the work of some of the water resources and reclamation organizations and manufacturing firms. They observed technical solutions and practices used at a number of projects. Visits were made to the following organizations and project sites:
  - Agricultural Research Service Coastal Plains Research Center, (Florence, S.C.);
  - Visit to irrigated farms in the vicinity of Florence using modern irrigation and drainage practices;
  - Hancor, Inc., manufacturing corrugated plastic drainage tubing;
  - Arco Polymers, Inc., manufacturing polyethylene film;
  - Bureau of Reclamation Columbia Basin Irrigation Project;
  - Bureau of Reclamation Grand Coulee Dam and Third Powerplant construction site;
  - R & G Sloane Co., manufacturing plastic fittings for pipe;
  - Amoco Reinforced Plastics Company, manufacturing reinforced plastic mortar pipe;
  - Gifford-Hill and Company, Inc., manufacturing plastic pipe;

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RECORD

OF

US-USSR JOINT PROJECT GROUP MEETING ON PROJECT II-3
"PLASTICS IN HYDROTECHNICAL CONSTRUCTION"

Denver, Colorado, USA

July 24, 1974

I

- 1. In accordance with the US-USSR Agreement on Cooperation in the Fields of Science and Technology signed May 24, 1972, and the decisions of the US-USSR Joint Commission on Scientific and Technical Cooperation, and the results of discussions of the first meeting of the US-USSR Joint Working Group on Scientific and Technical Cooperation in the Field of Water Resources signed September 30, 1972, the meeting of the US-USSR Joint Project Group on Plastics in Hydrotechnical Construction was held in Denver, Colorado, July 22-24, 1974.
- 2. Project coordinators who headed US and USSR groups:
  For the US:
  - H. G. Arthur, Director of Design and Construction, Bureau of Reclamation

For the USSR:

P. B. Sviklis, Director of Latvian Research Institute of Hydraulics and Reclamation of the USSR Ministry for Reclamation and Water Management

The list of participants is attached (Appendix No. 1).

- 3. The following items were discussed:
  - (1) Coordination of the detailed program of cooperation to be executed during the period of 1974-76
  - (2) Future trends in cooperation on the project
  - (3) Preliminary itinerary for the visit of the US group to the USSR in September 1974

II

1. As a result of exchange of opinions and information on the activities carried on in each country in the field of plastics application in hydrotechnical construction, the two groups

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LIST OF PARTICIPANTS AT THE MEETING ON THE PROJECT 11-3 "PLASTICS IN HYDROTECHNICAL CONSTRUCTION"

## USSR Group:

P. B. Sviklis	Coordinator of the Project, Director of Latvian
	Research Institute of Hydraulics and Reclamation of
	the USSR Ministry for Reclamation and Water Management

A. I. Kharin	Deputy Director, Ukrainian Research Institute of
	Hydraulics and Reclamation of the USSR Ministry for
	Reclamation and Water Management

V. F.	Blinov	Laboratory C	hief, Researc	h Industrial	Corporation
		"Plastics,"	Ministry of C	hemical Indu	stry

.S. F.	Korbut	Secretary of working group on water resources.
•		Administration for Scientific and Technical cooperation
		with foreign countries, USSR Ministry for Reclamation
		and Water Management

## US Group:

H. G. Arthur

	Construction, Bureau of Reclamation	
W. J. Ochs	Water Management Engineer for Drainage, Soil Conserva	tion

				Servic	e					
						i				
D	17	Ph 111en	•	Chief	Concrete	Branch:	Office.	Chief	of Engineers	3

a a	J.	P.	McGarvey	 Technical	Director	-	Film	Operations,	Arco	Polymers,
•				Inc.					•	

1	Kay Durazo		EXECUT	TAG DITEC	,	1 140 6200	TTPC THOUS		
•	•			•					
	G. N. Thorsky	y	Chief,	Division	of	Engineerin	g Support,	Bureau	0

Coordinator of the Project, Director of Design and

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- Tour of modern irrigated farms in the San Joaquin Valley utilizing plastic pipes;

- Bureau of Reclamation Engineering and Research Center visiting engineering laboratories and engaging in technical discussions on all work categories;

- Expo '74 World's Fair, Spokane, Washington, visiting water

resources and environmental exhibits

- 6. It is understood by the coordinators that financing of all activities associated with the joint works as provided by the program, be realized in accordance with the decisions adopted by the US-USSR Joint Commission on Science and Technical Cooperation.
- 7. The project coordinators and the participants of this joint meeting state with satisfaction that the talks were fruitful and held in the atmosphere of friendship and mutual understanding and initiated personal contacts that will contribute to further development and extension of cooperation in the field of plastics application in hydrotechnical construction.

The present document was signed on July 24, 1974, in two copies, English and Russian, both copies being equally valid.

P. B. Sviklis

USSR Project Coordinator

H. G. Arthur

US Project Coordinator

			·	B 4 0 4		·	•
				b. Improving technology of installing watertight plastic linings of canals and reservoirs.		Gategory of work	
in USA		evaluation of results. 3. Study of construction technology of plastic membrane cut-offs, exchange of technical documents and work experience. 4. Discussion of results in	in joint cooperation of experimental projects in both nations with use of Soviet and American plastic membranes.  Planning and joint consultations on construction and	1. Exchanging scientific technical information on placement technology for plastic watertight linings. 2. Planning and construction	6. Exchanging data on research equipment and technical documents on plastic film test methods. 7. Exchanging information on results of physical and mechanical investigations. Discussion of results.	5. Conducting technical investigations of performance of plastic materials under various climatic and soil conditions.	Activities in carrying
	•			Latvian Ukrain. Northern NIIG-M	in ente	ussr usa*	Sponsors
111, 1976	11 11 12 13 14	II, 1975	TT=1 6 T2/2	· • ·	TV, 1975	tion date	Work comple-
				Recommendations on te installation of soil- concrete-plastic lini ing the means of mech and fitting for membr		Expected result	

# JOINT PROGRAM OF WORK

OF THE USSR-USA WORKING GROUP ON PROJECT II-3 "PLASTICS IN HYDROTECHNICAL CONSTRUCTION" FOR 1974-1976 FOR SCIENTIFIC AND TECHNICAL COOPERATION

		effective use of plastic membranes in construction of water management systems under different environments.	Design and recumoracy or constructing plastic film linings in canals and reservoirs.	Category of work
tests.  4. Conducting complex laboratory investigations and working out technical requirements of plastic materials in use under differing	mechanical properties and aging processes of membranes. 3. Exchanging small quantities of various plastic materials for physical and mechanical	<ol> <li>Exchanging scientific technical information.</li> <li>Exchanging investigation methods for physical and</li> </ol>		Activities in carrying out work by stages
	<b>Ca</b>	Latvian Northern Ukrain. NIIG-M		Sponsors USSR USA*
IV, 1975	1,1975	III, 1974	·	Work comple- tion date (Quarter and year)
	controlling linings.	Reciprocal proposals on methods and apparatus in investigations of physical and mechanical properties of plastic membranes		Expected results

the Corps of Engineers, and the Society of Plastics

environments.

Industry.

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	· · · · · · · · · · · · · · · · · · ·			polymerization for concrete impregnation. Discussion of recommendations.		47
	III, 1976		tions	6. Development of recommendations for selecting monomers and synthetic resins, and also catalysts and promoters of		
· .	III, 1976	•	and	tigation ing cal prop		
•	III, 1976	•		methods of physical and mechanical investigations.  4. Conducting complex physical and mechanical investigation of specimens.		
• .	III, 1975		d	concretes in the USA and USSR construction. 3. Exchanging specimens and data on equipment to improve	<pre>Impregnated concrete (polymer- Impregnated portland cement concrete).</pre>	,
promoters of polymerizatimpregnation of concret	II, 1975	• ***		crete use.  2. Study of investigation methods and application experience with polymer-	hydraulic structures, and also in repairs of concrete units.  (a) Investigation of polymer	
Recommendations on sele- monomers and synthetic :	r, 1975	•	Latvian Ukrain. NIIG-M	<ol> <li>Exchanging scientific technical information and documents on polymer-con-</li> </ol>	Utilization of polymer- concrete in wear and cavita- tion resisting linings in	4
•	111,1976		its irch	7. Joint conference on results of conducted scientific research work: finalizing proposals for future scientific technical cooperation.		
	Work comple-	Sponsors USA*	Spon	Activities in carrying out work by stages	Category of work	No.

	Appro	ved i oi i	veleuse 2002	700701 . OIA	ness of pla drainage an	and eml and ell tivene in soi	No. Co
. 4					Investigation of effective- ness of plastic pipes in drainage and irrigation structures.	and embankment slopes.  (a) Investigation of effectiveness of chemical materials in soil stabilization.	Category of work Utilization of polymers in
evaluation of results  6. Investigation of more effective, economical filter envelopes for drainage pipes.	plastic pipes: -planning and joint consulta- tions on construction and	yarious environments.  5. Planning and constructing in joint cooperation experimental projects in both nations with use of Soviet and American	application of non-destruc- tive methods for quality control of plastic pipes. 4. Conducting detailed investigations of physical and mechanical properties considering their use under	2. Purchasing plastic pipes of differing technical para- meters (incl. porous), with required connection details. 3. Exchanging information and technical documents on	ng scienti formation, structions ipes in dr on, includ	application of stabilizing and texture forming chemical compounds for earth stabilization.  2. Exchange of opinions on basic trends of work to be jointly done.	Activities in carrying out work by stages  1. Exchanging scientific technical information on
to the	DA E	ng Ione		•	fic stand-Latvian on use Northern ainage VNIG-M ing rainage	NIIG-H	USSR USA* Latvian Ukrain.
111,1976	TY, 1975		II, 1975 III, 1976	1, 1975	IV, 1974	111, 1975	TV, 1974
		•	ľ	tective filters, and construction.	Recommendations on rational application of different types of plastic pipes in drainage and irrigation structures. Improved methods for pipe joining, promethods for pipe joining, pro-	9011 Step111zation.	Expected results (Continued)  Recommendations on selection and use of chemical materials for

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## APPENDIX NO. 3

# PRELIMINARY ITINERARY FOR THE VISIT OF US GROUP ON "PLASTICS IN HYDROTECHNICAL CONSTRUCTION" TO THE USSR

Time of stay: September 12-29, 1974

September 12 Thursday	Arrive Moscow via Air France 724 from Paris - Accomodation
September 13 Friday	Conversation at the USSR Ministry for Reclamation and Water Management - Departure to Kiev
September 14 Saturday	Visit to Ukrainian Research Institute for Hydraulic Engineering and Reclamation discussion on polymer application
September 15 Sunday	Kiev - Sightseeing
September 16 Monday	Kiev - Familiarization with the work of the Ukrainian Design Water Resources Project Institute (Ukrgiprovodkhoz) and visit to the Research Institute of Building Industry
September 17 Tuesday	Kakhovka - Field trip to Kakhovka irrigation system (head structure)
September 18 Wednesday	Inspection of canal sections using different seepage control methods
September 19 Thursday	Arrive at Kherson and flight to Leningrad
September 20 Friday	Leningrad - Familiarization with the results of scientific research at the Northern Research Institute for Hydraulic Engineering and Reclamation
September 21 Saturday	Leningrad - Field trip to water resources project sites near Leningrad
September 22 Sunday	Leningrad - Sightseeing
September 23 Monday	Flight to Riga - Sightseeing
September 24 Tuesday	Technical discussions on the project items

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•	Category of work	Activities in carrying out work by stages
	(b) Investigation of polymer concrete: (concrete with	1. Conducting investigations of prototype polymer repair
	polymer as the cementing agent)	compositions.  2. Preparation of a manual
		with use of polymer compo- sitions. Exchange of techni-
		cal documents on execution
		<ol> <li>Conducting laboratory</li> </ol>
	•	investigations of polymer-
	·	resins and working out
	•	designs of prefabricated
	-	polymer-concrete lining of

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September 25 Wednesday	Technical discussions and preparation of the draft for the joint general program up to 1980 - Departure to Moscow
September 26 Thursday	Moscow - Coordination of the draft with the US Embassy
September 27 Friday	Moscow - Signing the agreement and VDNKh sight- seeing
September 28 Saturday	Moscow - Sightseeing
September 29 Sunday	Departure to US via PA 45 to New York City

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30JUL74 (DATE)

MEMORANDUM FOR THE RECORD

SUBJECT: Opinion Request - Water Resources

Attached is self-explanatory material from the Department of State. May we have your opinion by 23AUG74

Please state degree of interest and whether we will receive requirements.

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VAT PLA PROJ. CONDINATORS 11- 05 May ZM (IIAGE)

COMMENTS:

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